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ASB BULLETIN

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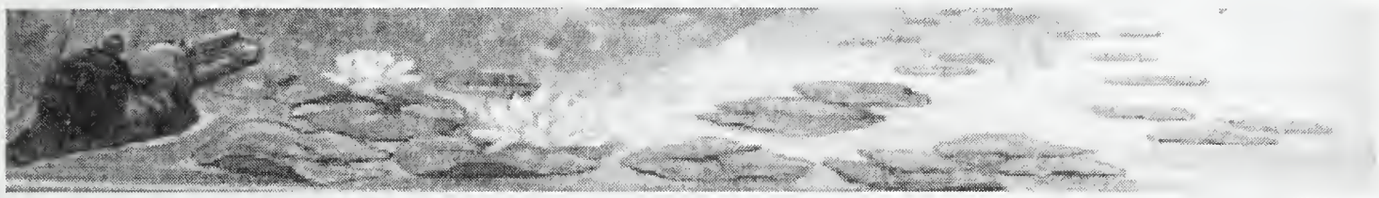

Department of Ecology & Evolutionary Biology
Tulane University

and

Dept. of Biological Sciences
Loyola University
New Orleans

Invite you to attend the
62nd Annual Meeting of the
Association of Southeastern Biologists
Follow these links to learn more; see page 311.

General Information
Program Schedule
Abstract forms
Registration
Field Trips
People to Contact

Contact webmaster -- Dr. Craig Hood, chood@loyno.edu, for inquiries.

The Official Publication of
The Association of Southeastern Biologists
http://www.asb.appstate.edu/

ASB Bulletin

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Executive Committee Members-at-Large

2001: George Cline, Department of Biology, Jacksonville State University, Jacksonville, AL 36265; (256) 782-5798; gcline@jsucc.jsu.edu.

Joe Pollard, Department of Biology, Furman University, Greenville, SC 29613-0418; (846) 294-3249; joe.pollard@furman.edu.

2002: Gerhard Kalmus, Department of Biology, East Carolina University, Greenville, NC 27858-4353; (252) 328-6306; kalmusg@mail.ecu.edu.

Bonnie Kelley, Department of Biology, University of North Carolina, Pembroke, NC 28372-1510; (910) 521-6419; kelley@nat.uncp.edu.

2003: Henry Bart, Tulane Museum of Natural History, Belle Chasse, LA 70037; (504) 394-1771, FAX (504) 394-5045; hank@museum.tulane.edu.

Kim Marie Tolson, Department of Biology, University of Louisiana at Monroe, Monroe, LA 71209-0520; (318) 342-1805; FAX (318) 342-3312; bitolson@ulm.edu.

Purpose

The purpose of this association shall be to promote the advancement of biology as a science by encouraging research, the imparting of knowledge, the application of knowledge to the solution of biological problems, and the preservation of biological resources. The ASB has representation in Section G Committee of the AAAS. Varying types of membership are available to individuals and institutions. Members receive *ASB Bulletin*.

Time and Place of Future Meetings

2001	April 4-7	Tulane and Loyola Universities, New Orleans, LA; see: http://www.loyno.edu/~asb/
2002	April 10-13	Appalachian State University, Boone, NC; see: http://www.asb.appstate.edu/asb2002.htm

62nd ANNUAL MEETING AT- A-GLANCE

The 62nd Annual Meeting of the Association of Southeastern Biologist will be held in New Orleans in 2001. The meeting dates are 4-7 April 2001. Tulane and Loyola Universities are serving as local host institutions. The local arrangements committee is made up of faculty from the Department of Ecology and Evolutionary Biology at Tulane, and the Department of Biological Sciences at Loyola University. The Local Arrangements Committee is co-Chaired by Hank Bart of Tulane and Craig Hood of Loyola University. **A web site has been set up for the meeting at http://www.loyno.edu/~asb/**. Please visit this site for more detailed meeting and registration information.

Highlights of the meeting include: a plenary address by noted biologist Dr. Peter Raven of the Missouri Botanical Garden; a symposium on the future of herbaria in the southeastern U.S.; a workshop on software products for biology instruction, an evening social at Audubon Zoo; field trips to a number of the interesting environments south Louisiana has to offer; and the usual variety of contributed paper and poster sessions. In addition, the local committee is organizing a special symposium on the Mississippi River and Coastal Louisiana. This symposium will highlight the important contributions scientists at Tulane, Loyola and other Louisiana universities are making to problems related to the Mississippi River.

The venue for the meeting will be the Radisson Hotel at 1501 Canal Street (formerly the Jung Hotel), which is directly across Canal Street from the Tulane School of Public Health and Tropical Medicine, and across LaSalle Street from Tulane's Tidewater Building. With the exception of the Thursday evening social and the "on-line education" symposium, all meeting events will be conveniently held at the Radisson Hotel. Participants are asked to use the Radisson for their hotel accommodations. Please visit the meeting web site for room rates. A list of alternative lodging in the vicinity of the Radisson is also posted at the web site.

Registration rates for the meeting are as follows. Early registration (received prior to 16 February 2001) is $100 for regular participants and $50 for students. Late registration is $150 for regular participants and $75 for students (registration forms are available on the meeting web site).

Local Arrangements Committee

Local Arrangements Co-Chair Symposia/ workshops	Hank Bart	hank@museum.tulane.edu
Local Arrangements Co-Chair Program Co-chair, Web Master	Craig Hood	chood@loyno.edu
Program Co-Chair	David Heins	heins@mailhost.tcs.tulane.edu
Beta Beta Beta	Patricia Dorn	dorn@loyno.edu
Commercial Exhibits	Don Hauber	hauber@loyno.edu
Field Trips	Dave White	dawhite@loyno.edu
Posters and Audiovisual	Beth Wee	bwee@tcs.tulane.edu
Registration and Meeting Statistics	Melinda Epperson	epperson@tmcpop.tmc.tulane.edu
Social Committee	Frank Jordan	jordan@loyno.edu
Transportation and Volunteers	Bruce Fleury	bfleury@tcs.tulane.edu

Societies Meeting with ASB in New Orleans[1]

American Society of Ichthyologists and Herpetologists, Southeastern Division (ASIH). Debra S. Moore, dmoore@tsud.edu

Beta Beta Beta (BBB), District I
Virginia L. Martin, martinv@Rex.queens.edu

Beta Beta Beta (BBB), District II
Donald H. Roush, Droush@unanov.una.edu

Botanical Society of America, Southeastern Division (BSA)
James Mickle, james_mickle@ncsu.edu

Ecological Society of America, Southeastern Division (ESA)[2]
Niki Nicholas, nsnicholas@tva.gov

Society of Wetland Scientists, South Atlantic Chapter (SWS)
Pat Megonigal, jmegonig@gmu.edu

Southeastern Fishes Council (SFC)
Steve Ross, stephen.ross@usm.edu

Southern Appalachian Botanical Society (SABS)
Joe Winstead, jewinstead@saumag.edu

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[1]Business meetings and other functions of the affiliate societies will be held at the Radisson Hotel.
[2]25th Anniversary Meeting.

2000 Meeting in Chattanooga

NEW MEMBERSHIP OFFICER PROPOSED FOR ASB

Roles and responsibilities of the Treasurer have been growing over recent years and are now challenging for one individual to assume. Tim Atkinson (Treasurer). Pat Parr (Past President), and Joe Pollard (Executive Committee) were requested by President Howie Neufeld to review the situation and propose a solution. At the interim meeting, a recommendation was made by the working group, and approved by the Executive Committee, to establish an ASB Membership Officer. The general membership will vote on this proposal at the April Annual Meeting.

The proposal is for the Membership Officer, appointed by the Executive Committee, to be an ex-officio member of the Executive Committee with a three-year term corresponding with the Treasurer's term of office. Responsibilities include the following:

1. **Dues**
   a) Receive dues and checks.
   b) Forward checks to the Treasurer after recording information (or, make arrangements with the Treasurer to deposit checks and forward banking information).
   c) Send dues notices.
   d) Serve as point of contact to receive undeliverable mailings, change of address notices, and other membership related materials.
2. **Database**
   a) Maintain membership database.
   b) Update database as needed.
   c) Coordinate with Print Editor to provide updated member information for journal mailing list.
   d) Coordinate with Web Editor to provide updated member information for website.
   e) Report on membership trends to Executive Committee.
3. **Outreach**
   a) Work with President Elect on updates of the Membership Brochure.
   b) Identify ways to increase membership and participation in ASB.

Approval of this position will require amending the Constitution as shown below in **BOLD**. This change, along with the appropriate change in Bylaws wording, will be voted on at the April Annual Meeting.

Article IV - Executive Committee

Section 1. The officers of the Association, six (6) Members-at-Large elected by the membership, the Print Editor of *Southeastern Biologist*, **the Membership Officer**, the Web Editor of the Association, and the Archivist of the Association shall constitute the Executive Committee. The Print and Web Editors, **Membership Officer**, and Archivist shall be ex officio, nonvoting members with the right to discuss all issues and to propose motions. Members-at-Large shall serve terms of 3 years with two members elected each year.

A Message from the President

A number of years ago, ASB endorsed the concept of a National Institute for the Environment, known then as NIE. A national committee (CNIE) was formed to begin the process of developing the NIE. This committee has now evolved into the National Council for Science and the Environment (they use the acronym NCSE, which unfortunately is also used by the National Center for Science Education, a group devoted to fighting anti-evolution legislation). They will be holding their first annual meeting this December (7th and 8th) in Washington, DC, and though this Bulletin may not get to you in time to register, as President of ASB, I thought I should print the following short article describing the new NCSE and its goals and objectives. I still think that ASB should endorse this group as it has evolved. Their mission is commensurate with the goals of ASB, and endorsement is without cost to our society. If you miss their meeting this year, they plan to hold them on an annual basis, so maybe plan on next year!

Howard S. Neufeld, President
Association of Southeastern Biologists

National Council for Science and the Environment

About the National Council for Science and the Environment (NCSE):

The National Council for Science and the Environment (formerly known as the Committee for the National Institute for the Environment, CNIE) is a non-profit, non-partisan organization whose ***fundamental mission is to improve the scientific basis for environmental decision-making***.

The NCSE is supported by a broad diversity of stakeholders that represent leading universities and colleges, scientific and professional societies, environmental and conservation organizations, industry and business councils, and state and local governments and associations. The website for the organization is: http://www.cnie.org/. (A list of supporters and endorsers can be found at this site.)

The NCSE (not to be confused with the National Center for Science Education, which unfortunately uses the same acronym) was founded in 1990 to help establish the National Institute for the Environment (NIE)–a proposed independent, federally funded agency that was to provide stable and long-term funds for programs in environmental research, assessment, education, and public information. Its purpose was to ensure that accurate and scientifically based information and data on critical environmental issues could be generated and made readily available to a wide array of decision-makers, educators and the general public.

NCSE's Current Goals and Objectives:

In recent years, the NCSE has determined that most of its proposals for an independent NIE could be accomplished if a federally-funded environmental research, assessment, education and public information program were organized

under the auspices of the National Science Foundation (NSF). ***Most significantly, in July 1999, the NSF's Governing Board approved an interim report on environmental science and engineering that recommended institutional adoption of most of the principles and programs outlined in the original NIE proposal.***

At present, the NCSE:

- ❖ Works toward the full implementation of the interim NSF report.
- ❖ Facilitates stakeholder actions to develop a shared understanding of science, its needs, and priorities, and make efforts to link scientific understanding of environmental issues to public and private decision-making.
- ❖ Develops and implements an online information dissemination system so that internet users all over the world can find reliable, easy-to-understand and science-based information about current and emerging environmental issues, both globally and regionally.

NCSE's Programs and Priorities:

The NCSE's goals and objectives are carried out through the implementation of three major organizational programs:

A. Education and Activation of Stakeholders:

- NCSE conducts informational programs with stakeholders to educate them about the importance of improving the scientific and technical basis for sound environmental decision-making and the necessary steps to make it happen.
- NCSE communicates the need for action by stakeholders for the implementation of the recommendations of the NSF's interim report, *Environmental Science and Engineering for the 21st Century: The Role of the National Science Foundation.*
- NCSE tracks steps taken and progress made by the NSF towards full and effective implementation of its interim report.
- NCSE monitors and documents science-based programs initiated and implemented by other federal, state and local government agencies and institutional programs to improve the overall basis for environmental decision-making.

B. Stakeholder Interaction and Public Recognition:

- NCSE facilitates interaction with stakeholders to: 1) share information, 2) identify environmental science needs and priorities, and 3) develop a shared understanding of science and a common voice on how scientific information and knowledge can improve environmental decision-making.
- NCSE undertakes joint activities with governmental agencies, including federal, state and local science-based agencies, in support of programs to improve the scientific basis for environmental decision-making.

- NCSE provides public recognition of individuals and organizations that make outstanding and special contributions to improving the scientific basis for environmental decision-making through:
  - selection each year of a distinguished speaker for NCSE's **John H. Chafee Memorial Lecture on Science and the Environment**;
  - conferring the NCSE's annual **Meritorious Achievement Awards on Science and the Environment**;
  - invitations to leading scientists, technical experts, environmentalists and decision-makers for presentations to be made at NCSE's **Annual Meeting of Stakeholders**.

C. Information Dissemination: The National Library for the Environment (NLE):

- NCSE maintains and continues to expand an easy-to-use, timely and universal access to high quality scientific and environmental information and other technical data at its award-winning, online National Library for the Environment (NLE), at: http://www.cnie.org/nle/.
- NCSE works to ensure quality control of the information provided on the NLE, so that its users understand environmental issues in the proper scientific, technological and societal contexts.
- NCSE assists stakeholders to share information with each other and for them to provide science-based information on environmental issues to decision-makers, educators, media and the general public.

NCSE's Institutional Supporters:

NCSE is supported by the institutions that endorsed the proposal for a National Institute for the Environment, including:

- ❖ 285 colleges and universities
- ❖ 84 academic and scientific organizations
- ❖ 50 environmental and conservation organizations
- ❖ 36 business associations, including the U.S. Chamber of Commerce
- ❖ 17 state and local governments and government associations
- ❖ 3 religious and other groups

Officers of the NCSE include:

Stephen P. Hubbell, Ph.D. - Chairman
Department of Botany
University of Georgia
Athens, GA 30602

Peter D. Saundry, Ph.D. - Executive Director

The Honorable Richard E. Benedick, D.B.A. - President
U.S. Ambassador, retired
Deputy Director, Batelle Pacific Northwest National Laboratory

A. Karim Ahmed, Ph.D. - Secretary/Treasurer
President of the Global Children's Health & Environmental Fund

David E. Blockstein, Ph.D. (***Dr. Blockstein is the person to contact for information***)
Senior Scientist
National Council for Science and the Environment
1725 K Street, N.W., Suite 212
Washington, DC 20006-1401
Tel. 202-530-5810 x 205; FAX 202-628-4311
Email: david@cnie.org

NEW AWARD!

Society of Wetland Scientists
Graduate Student Travel Assistance Award

The South Atlantic chapter of SWS is offering a new travel award to support graduate students presenting wetland research at ASB meetings. We will award at least $100 to a maximum of five students. Officers of the Chapter will judge the applicants based on the scientific quality and importance of their research as described in the abstract. All graduate students presenting research on a wetland topic are eligible; membership in SWS is not required. Please check the appropriate box on your ASB registration form to apply. You may contact Dr. Patrick Megonigal of George Mason University at jmegonig@gmu.edu or 703 993-1045 for more information.

ASB MEMBERSHIP DIRECTORY

A current ASB membership directory has been developed by Dr. Dwayne Wise of Mississippi State University on the ASB home page. Go to http://www1.appstate.edu/dept/biology/asb/index.htm and click on DIRECTORY. The directory will search by name, city, state, or institution. If you need more information, contact Dr. Wise by telephone (662) 325-7579, or FAX (662) 325-7939 or e-mail: daw1@ra.msstate.edu.

THE INTERNATIONAL BIODIVERSITY OBSERVATION YEAR, 2001-2002

Diana H. Wall, Gina A. Adams and Jennifer K. Balch
Natural Resource Ecology Laboratory, Colorado State University
Fort Collins, CO 80523-1499

"*The key to a cost-effective solution to the biodiversity crisis lies in the collaboration of museums, research institutions, and universities; the pooling of human and financial resources; and the shared use of physical and institutional structures that are already present. Rather than building the knowledge, institutional, and physical infrastructure for documenting biodiversity from the ground up, we need to build upon the preexisting infrastructure. . . .*"

–Edward O. Wilson, "Biodiversity II"

The International Biodiversity Observation Year (IBOY), 2001–2002, is an unparalleled collaborative effort by scientists, educators and the media to focus society's attention on the exploration and conservation of biodiversity (Norris, 2000). The IBOY is an initiative of DIVERSITAS, the international program of biodiversity science (http://www.icsu.org/diversitas/). In conjunction with the goals of the Convention on Biological Diversity and with recognition from the IUCN World Conservation Congress, an international Steering Committee and Advisory Board of preeminent scientists and communicators are directing the IBOY towards its primary objectives, to:

- Promote and integrate biodiversity research to advance a holistic understanding of biodiversity;

- Educate the public and policymakers about biodiversity and the implications of biodiversity research for daily living.

The IBOY will draw together a diverse portfolio of biodiversity research, education and outreach activities. It will provide a unified platform for disseminating their findings and emphasize the importance of understanding the functioning of the natural world. IBOY will raise awareness of local, national and international programs that examine biodiversity from genetic to landscape scales, and from mountains to ocean floors. Through meetings, listserves, webpages, publications, films and collaboration with national biodiversity events the IBOY will draw communities together across international and interdisciplinary barriers to form new coalitions that can address these priority areas.

At the heart of IBOY is a diverse portfolio of research, education and communication projects that examine the many dimensions of biodiversity. IBOY does not fund projects–all projects should be funded from other sources. Projects can participate in the IBOY at local, national and international levels and proposals for additional projects are still welcome.

Core Network Projects – are those with an international scope, that will have a peak of activity and yield products during 2001 or 2002. These will be the focus of the IBOY's publicity and synergistic activities.

Approved Smaller–scale Projects – are not international in scope, or are otherwise not suited to participate in the IBOY as a Core Project. These will be included in a geo-referenced directory of biodiversity research, education and outreach activities occurring around the world in 2001 and 2002, that will be accessible from the IBOY website.

To date there are over 40 Core Projects, from more than 50 countries, participating in the IBOY. They include research, informatics and outreach programs and address vital questions, such as "What biodiversity do we have and where is it?" "What goods and services does biodiversity provide?" "How is biodiversity changing?" and "How can we conserve biodiversity?" Information on all projects can be found at http://www.nrel.colostate.edu/IBOY/projects.html.

Many projects are exploring remote habitats to describe the life in aquatic realms. For example, one such international expedition, led by Dr. Tom Illife at Texas A&M University, will study anchialine habitats (flooded inland marine caves and groundwaters that lack any direct connection with the open sea) (http://www.cavebiology.com/). These caves are inhabited by poorly known, highly specialized species that are long-term survivors of ancient lineages. During the IBOY, this global survey will locate and document anchialine fauna and flora and create management guidelines for their protection. Another project participating in the IBOY, DIVA, directed by Prof. Johan Wagele at Ruhr-Universitat Bochum, Germany, will sample biodiversity along a latitudinal transect of the abyssal plains of the Atlantic Ocean. It seeks to reduce the considerable uncertainty in estimates of deep-sea biodiversity and elucidate the mechanisms that drive the high biodiversity of deep-sea sediments. DIVA will describe the fundamental ecological characteristics of this uncharted realm, including the homogeneity of faunal distributions, species diversity and specialized adaptations.

Other Core research projects are looking at biological diversity on terrestrial frontiers. One such project, the USGS Gap Analysis Program (GAP), led by Patrick Crist, provides information on the distribution and status of native plant communities and animal species in order to provide land managers, planners, scientists, and policy makers with the information they need to make better-informed decisions. The program overlays maps of land cover, species distribution, land ownership and degree of biodiversity management to identify the extent to which biotic elements are represented in the current network of conservation lands. GAP provides first-ever snapshots of biotic distributions and status over large regions at detailed spatial resolution. The GAP is also coordinating with Mexico and Canada in developing similar programs. During the IBOY the GAP will issue reports and datasets on the conservation status of biodiversity across the USA. Another terrestrial project is the Global Survey of Soil Biodiversity and Decomposition, coordinated by Dr. Diana Wall, of the Natural Resource Ecology Laboratory, Colorado State University and Dr. David

Bignell, of Queen Mary and Westfield College, University of London. This Core project will increase knowledge of the vast biodiversity below the surface of soils, which is believed to be orders of magnitude greater than that above surface.

In addition to an eclectic group of solid research projects, there are many informatics programs participating in IBOY in 2001–2002. The IBOY aims to dramatically increase awareness among scientific, policy and public spheres of the unprecedented resources on biological capital made available through information technology and ambitious and innovative informatics programs, designed to deliver urgently needed biological data. One such program, *Species 2000* (http://www.sp2000.org), chaired by Professor Frank Bisby of the University of Reading, UK, aims to enumerate all known species of plants, animals, fungi and microbes on Earth as the baseline dataset for studies of global biodiversity. Users worldwide will be able to verify the scientific name, status and classification of any known species via the Species Locator, which provides access to species checklist data drawn from an array of participating databases. During the IBOY, *Species 2000* will launch its first CD-ROM the Annual Checklist 2001, containing a listing of about 217,000 species. The service will be made available as part of the Clearing House Mechanism under the United Nations Convention on Biological Diversity. In January 2001 another major initiative, the Millennium Ecosystem Assessment (http://www.ma-secretariat.org) will begin. This project is led by Dr. Walter Reid and a distinguished international Steering Committee and Advisory Group with the intent to develop a science-based assessment of the status of the world's ecosystems and their abilities to meet future needs. During the IBOY new scientific coalitions will form to design and implement this unprecedented global evaluation, and articles describing its methods and preliminary findings will be published.

Educating the public about biodiversity and the pivotal role of today's citizens in determining its fate, is a key objective of the IBOY. Educators and the media are participating in the IBOY to convey the scientists' message. For instance, at the start of the IBOY an IMAX film "Lost Worlds" directed by Bayley Silleck, in association with the American Museum of Natural History, will describe the links between species and ecosystems and past and present dynamics of biodiversity. BBC World will screen four films on biodiversity produced as part of the Television Trust for the Environment's Earth Report. In Kathmandu, the Alliance of Religion and Conservation will bring together the leaders of the world's major religions to discuss their impact on and responsibilities to biodiversity, as part of WWF's 'Sacred Gifts for a Living Planet' campaign. Museums across the world are also participating in the IBOY with special exhibits on biodiversity. A crucial mission of the IBOY is to engage the public in its focus on biodiversity, and the IBOY particularly invites the participation of projects that include students, volunteer groups and other sectors of society.

We welcome your suggestions for making the IBOY a global success. More information on the IBOY, its projects, and how to get involved can be found on the IBOY webpage http://www.nrel.colostate.edu/IBOY or by contacting Dr. Diana Wall, Chair of IBOY, or Dr. Gina Adams, IBOY Program Director, at the Natural Resource Ecology Laboratory, Colorado State University, Fort Collins, CO 80523-1499, USA. Tel: 970 491-1984; Fax: 970 491-3945; e-mail: iboy@nrel.colostate.edu.

References:

Norris S. 2000. A Year for Biodiversity. BioScience 50(2): 103-107.

Wilson, E.O. 1996. Biodiversity II. Understanding and Protecting our Natural Resources. National Academy Press, Washington, DC.

CONSTITUTION OF THE ASSOCIATION OF SOUTHEASTERN BIOLOGISTS

Article I - Organization

Section 1. The name of this organization shall be The Association of Southeastern Biologists.

Section 2. The purpose of this Association shall be to promote the advancement of Biology as a science by encouraging research, the imparting of knowledge, the application of knowledge to the solution of biological problems, and the preservation of biological resources.

Article II - Membership and Dues

Section 1. Membership shall be open to all persons interested in the biological sciences.

Section 2. Membership shall be granted to any eligible individual, institution, or corporation upon receipt of a written application and dues payment for the current year.

Section 3. Each member shall pay annual dues in accordance with her/his category of membership. Annual dues include a year's subscription to *Southeastern Biology* and/or other publications of the Association.

Article III - Officers

Section 1. The Officers of the Association shall be the President, Vice President, President-Elect, Past President, Secretary, and Treasurer.

Section 2. The term of office is 3 years for the Secretary and Treasurer and 1 year for the other offices.

Article IV - Executive Committee

Section 1. The officers of the Association, six (6) Members-at-Large elected by the membership, the Print Editor of *Southeastern Biology,* the Web Editor of ASB, and the Archivist of the Association shall constitute the Executive Committee. The Print and Web Editors and Archivist shall be ex officio, nonvoting members with the right to discuss all issues and to propose motions. Members-at-Large shall serve terms of 3 years with two members elected each year.

Section 2. The Executive Committee shall meet in the fall of each year and in the spring during the Annual Meeting of the membership.

Article V - Annual Meeting

Section 1. The Annual Meeting of the Association shall be held in April at such place as may be recommended by the Executive Committee and approved by the membership. The date of the meeting shall be determined by the Executive Committee.

Section 2. The Executive Committee may change the time and place of the Annual Meeting and may call special meetings of the Association.

Section 3. Notice of all special meetings shall be sent to each member at least two (2) weeks before the dates on which such meetings are to convene.

Section 4. Fifty (50) members of the Association shall constitute a quorum for the transaction of business at the Annual Meeting or at any special meeting.

Article VI - Disposition of Property

In the event of the dissolution or termination of the Association of Southeastern Biologists, title to and possession of all assets of the Association shall be assigned forthwith by the Executive Committee to a non-profit organization similar to the ASB in its overall goals or other biological organizations operated exclusively for charitable, educational, or scientific purposes.

Article VII - Incorporation

The Association of Southeastern Biologists is incorporated as a non-profit scientific, and educational organization without capital stock and one solely engaged in lawful activity as permitted by Section 501(c)(3) of the Internal Revenue Code of 1954, as amended, and by Chapter 55A-86 of the General Statutes of the State of North Carolina. No member shall have any title or interest in the property of the Association, and no dividends or profits shall be declared or paid to any member.

Article VIII - Audit

Section 1. The fiscal year for the Association is January 1 through December 31.

Section 2. The financial records of the Treasurer and of the Board of Trustees of the Enrichment Fund shall be audited at least once each year by the Auditing Committee.

Article IX - Archives

The Archives of The Association of Southeastern Biologists shall be maintained permanently at Emory University, Atlanta, Georgia.

Article X - Amendments

Section 1. This Constitution may be amended at any Annual Meeting by a three-fourths majority of those present, provided due notice has been sent by the Secretary to the membership at least 30 days in advance of the meeting, provided the amendment has been proposed by the Executive Committee or by a committee authorized by the Association at a previous Annual Meeting, and provided that so long as the Association shall be or remain an organization exempt under Section 501(c)(3) of the Internal Revenue Code of 1954, as amended, no amendment shall be made to Article I, Article VI, or Article VII of this constitution without consent having been obtained from the Internal Revenue Service

and having been reported to the North Carolina Department of State.

Section 2. Amendments to this constitution shall take effect as soon as adopted by vote of the membership.

Bylaws of the Association of Southeastern Biologists

Article I - Membership and Dues

Section 1. Annual dues shall be set by the membership on recommendation by the Executive Committee for the following categories of regular membership: Individual, Student, Sustaining, Contributing, Family, Life, Emeritus, Patron, and Library.

Section 2. Any member who has been a regular member of the Association for 10 or more consecutive years and who has retired from professional duties may be elected to Emeritus membership by the Executive Committee. An Emeritus member shall have the same rights and privileges as a Regular Member.

Section 3. Any individual or organization that contributes funds each year, in an amount set by the Executive Committee and approved by the membership, to sponsor an ASB award or otherwise support the Association shall be known as a Patron Member of the Association.

Section 4. Any organization with a focus on the biological sciences may become an affiliate of the Association of Southeastern Biologists upon recommendation of the Executive Committee and approval of the membership attending the annual meeting. Affiliation does not confer individual membership in the Association on the members of the affiliated organization.

Section 5. Annual renewal of membership shall require the payment of dues by the first of January. Any member with dues in arrears on the first of July shall be dropped from the membership roster. Members must pay past dues to maintain continuous membership.

Article II - Election of Officers

Section 1. The Nominating Committee shall prepare annually a multiple slate of nominees for each office to be filled. Members may recommend to the Nominating Committee persons for any office.

Section 2. The slate of nominees shall be presented to the membership prior to the Annual Meeting, and the election shall be held during the business session of the Annual Meeting. Nominations will be received from the floor.

Section 3. The Secretary shall prepare ballots which shall be distributed and collected by three tellers appointed by the President. A majority vote will constitute election to office. Where more than one person is to be elected to a position (e.g., Members-at-Large of the Executive Committee), the two or more receiving the highest number of votes shall be declared elected.

Section 4. During the Annual Meeting, those elected shall be presented to the membership. All ballots shall be deposited with the Secretary who shall retain them for 1 year.

Section 5. A President-Elect shall be elected annually and shall become President at the close of the next Annual Meeting.

Section 6. A Vice President shall be elected annually. Neither the President nor the Vice President shall be eligible for reelection for the year following her/his term of office.

Section 7. A Secretary and a Treasurer shall each be elected for a 3-year term and shall be eligible for reelection.

Article III - Duties of Officers

Section 1. The President shall be the executive officer of the Association, shall perform the duties usual to the office, and shall appoint, with the advice of the Executive Committee, regular committees, special committees authorized by the Executive Committee, and where appropriate, Association Representatives to other organizations. The President shall notify Emeritus members of their election.

Section 2. The President-Elect shall organize the program for the plenary session of the Annual Meeting and shall be responsible for promoting membership in the Association. In the event that the President-Elect cannot complete her/his term of office, the person who received the next highest number of votes shall become President-Elect. If this person is unable to serve, the Executive Committee shall nominate two candidates for the office, one of whom would be elected by the membership by mail ballots.

Section 3. The Past President, in order to provide continuity in the governance of the Association, shall serve as advisor to the President on matters of past policy. He/She shall serve as Chair of the Resolutions Committee and of the Past Presidents' Council.

Section 4. The Vice President shall be the public relations officer of the Association. In the absence of the President from any meeting, the Vice President shall discharge the duties of the office, and in the event that the President cannot complete her/his term of office, the Vice President shall become President of the Association.

Section 5. The Secretary shall keep records of the meetings of the Association and of the Executive Committee, conduct routine business pertaining to the office, prepare and distribute ballots, serve ex officio as Associate Editor of *Southeastern Biology,* and report the activities of the office to the Association at the Annual Meeting. In the absence of the Treasurer, the Secretary shall assume the duty to authorize by signature any financial transactions belonging to the Treasurer's office.

Section 6. The Treasurer shall receive and disburse all funds of the Association, keep records of dues received and funds expended, serve ex officio as Business Manager of *Southeastern Biology*, and report the activities of the office annually to the membership. He/she is authorized to reimburse the Secretary for expenses

incurred in attending the Annual Meeting and interim meetings of the Executive Committee and may be authorized by the Executive Committee to reimburse other officers for expenses incurred in attending one Executive Committee meeting per year.

Article IV - Southeastern Biology

Section 1. *Southeastern Biology,* the official publication of the Association, shall be published quarterly or at other regular intervals as may be determined by a vote of the membership upon recommendation by the Executive Committee.

Section 2. The Print Editor, responsible for editing and publishing *Southeastern Biology,* shall be a member of the Association appointed by the Executive Committee for a term of 3 years. He/She shall be eligible for reappointment for successive 3-year terms.

Section 3. Upon the recommendation of the Print Editor, the Executive Committee may appoint a Circulation Manager who would assist the Editor in matters related to the distribution of the Bulletin.

Section 4. *Southeastern Biology* shall be supplied to all members of the Association. Organizations may subscribe to *Southeastern Biology* at a rate set by the Executive Committee not to exceed the rate for contributing members, but such subscriptions will not carry the privileges of membership in the Association.

Section 5. Major changes in editorial policy proposed by the Editor shall be subject to approval by the Executive Committee.

ARTICLE V - ASB Web Page

Section 1. The Association shall maintain an official ASB Web page on the Internet. The ASB Web page shall contain information about ASB officers and the Executive Committee, information concerning the Annual Meeting, news of ASB activities, information of interest to biologists in the southeast, and links to Internet sites of interest to the membership.

Section 2. The ASB Web page will be administered by the ASB Web Editor. The Editor of the ASB Web page shall be a member of the Association, responsible for the editing and publishing of the Web page, and shall be selected and appointed by the Executive Committee for a term of 3 years. The Editor shall be eligible for reappointment for any number of successive 3-year terms. The official title shall be Web Editor.

Article VI - Executive Committee

Section 1. The Executive Committee shall be in charge of the affairs of the Association and shall direct the expenditure of the Association's funds. The committee shall establish the policies for the Association with the approval of the membership and shall record all policies in effect in the "Handbook for Officers and Committee Members."

Section 2. The Members-at-Large are eligible for reelection. Should a Member-at-Large leave office prior to expiration of the term, the Executive Committee shall appoint a replacement to serve until the next election.

Section 3. The Executive Committee shall appoint an Archivist who shall be custodian of the permanent records or archives and, with the approval of the Executive Committee, make appropriate arrangements for the collection, care, and maintenance of such records. The Archivist shall serve a term of 3 years and shall be eligible for reappointment for successive 3-year terms.

Section 4. For all meetings of the Executive Committee seven voting members shall constitute a quorum.

Article VII - Standing Committees

Section 1. The following standing committees shall serve the Association:

A. Auditing Committee
B. Committee on Women, Minorities, and Persons with Disabilities
C. Conservation Committee
D. Education Committee
E. Finance Committee
F. Graduate Student Support Award Committee
G. Local Arrangements Committee
H. Meritorious Teaching Award Committee
I. Nominating Committee
J. Past Presidents' Council
K. Patron Member and Exhibitor Committee
L. Place of Meeting Committee
M. Poster Awards Committee
N. Publications Committee
O. Resolutions Committee
P. Senior Research Awards Committee
Q. Student Research Awards Committee

Section 2. Committee members, except for those who serve ex officio, shall be appointed by the President upon the approval of the Executive Committee. The composition and duties of the standing committees shall be as follows:

A. The Auditing Committee shall examine the records of the Treasurer prior to the Annual Meeting of the Association and shall report the condition of the accounts to the membership at the business session of this meeting. In accordance with Article VIII, Section 7., the committee shall audit the accounts of the Enrichment Fund. The committee shall consist of three members appointed for terms of 3 years, with a member appointed annually and serving as Chair in the third year.

B. The Committee on Women, Minorities, and Persons with Disabilities shall promote career opportunities in the biological sciences for women, minorities, and individuals with disabilities and implement programs to eliminate barriers that restrict the

access of underrepresented groups to biological careers. The committee shall consist of three members appointed for terms of 3 years, with a member appointed annually and serving as Chair in the third year.

C. The Conservation Committee shall accumulate facts about environmental issues; shall, where it deems appropriate, disseminate such information to the membership; and shall bring resolutions addressing issues of significance to the Executive Committee for presentation to the membership through the Resolutions Committee. The committee shall consist of three members appointed for terms of 3 years, with a member appointed annually and serving as Chair in the third year.

D. The Education Committee shall explore ways and means by which the Association might contribute to improved biological education at all levels. Where feasible, the committee shall organize symposia and workshops for the Annual Meeting designed to acquaint the membership with new pedagogy and critical issues in biological education. The committee shall consist of six members appointed for terms of 3 years, with two members appointed annually and serving as Co-Chairs in the third year.

E. The Finance Committee shall review the finances of the Association, prepare budget projections for future years, and recommend actions regarding dues structure and other financial matters to the Executive Committee. The committee shall consist of the ASB Treasurer (Chair), Past President, President-Elect, and a member of the Executive Committee.

F. The Graduate Student Support Award Committee shall make monetary awards to assist graduate students to attend the Annual Meetings of ASB. The committee shall consist of three members appointed for terms of 3 years, with a member appointed annually and serving as Chair in the third year.

G. The Local Arrangements Committee shall make arrangements for the Annual Meeting, including receipt and scheduling of scientific papers to be presented and making arrangements for registration, exhibits, field trips, and social activities. The committee shall also provide information of available transportation, parking, and accommodations. Meeting statistics collected shall be forwarded to the next Local Arrangements Committee. Members of the committee shall include a Chair, selected by the host institution, and the Chairs of subcommittees he or she designates.

H. The Meritorious Teaching Award Committee may each year select a member of the Association to receive the award for meritorious teaching. The committee shall consist of three members appointed for terms of 3 years, with a member appointed annually and serving as Chair in the third year.

I. The Nominating Committee shall, with due consideration of suggestions received from the membership, prepare a multiple

slate of nominees for each office to be filled. The committee shall consist of three members, one of whom is a recent past president who shall serve as the Chair.

J. The Past Presidents' Council, composed of the Past Presidents attending the Annual Meeting with the current Past President serving as Chair, shall review and discuss major issues under consideration by the Executive Committee and, where appropriate, shall share its consensus view with the Executive Committee on the resolution of these issues.

K. The Patron Member and Exhibitor Committee shall communicate with patron members and exhibitors, provide Local Arrangements Committees with information and recommendations regarding potential exhibitors, and promote an increase in the number of patron memberships and Annual Meeting exhibitors. The committee shall consist of a Chair (3-year term) appointed by the President with option to reappoint to successive terms, Vice Chair (3-year term) elected by the Executive Committee from its membership at the end of the first year of the Chair's term, the ASB Vice President, and the Past Chair of the Local Arrangements Committee.

L. The Place of Meeting Committee shall recommend to the Executive Committee the locations for each Annual Meeting and shall actively seek potential host institutions throughout the southeastern states. The committee shall consist of three members appointed for terms of 3 years, with a member appointed annually and serving as Chair in the third year.

M. The Poster Awards Committee may each year select a recipient of the Association Poster Prizes for the meritorious presentation of original research by members at the Annual Meeting. The Committee shall consist of three members appointed for terms of 3 years, with a member appointed annually and serving as Chair in the third year.

N. The Publications Committee shall provide oversight of the Association's publications, consider requests for special publication activities, and recommend any alteration of publication policy to the Executive Committee for approval and subsequent approval by the membership. The committee shall consist of three of the Members-at-Large of the Executive Committee and the Editor (ex officio).

O. The Resolutions Committee shall formulate and, with approval of the Executive Committee, present to the membership such resolutions as may be considered worthy of action by the Association. The committee shall be served by the Past President as Chair and two additional members with terms of 1 year.

P. The Senior Research Awards Committee may each year select a recipient of the Association Senior Research Prize for the meritorious presentation of original research by a member (student members excluded) at the Annual Meeting. The committee shall consist of three members appointed for terms

of 3 years, with a member appointed annually and serving as Chair in the third year.

Q. The Student Research Awards Committee may each year select the recipients of the Association Student Research Prizes for the meritorious presentation of original research by a student member at the Annual Meeting. The committee shall consist of three members appointed for terms of 3 years, with a member appointed annually and serving as Chair in the third year.

Article VIII - The Annual Meeting

Section 1. An Annual Meeting, hosted by colleges, universities, or scientific institutions throughout the Southeast, shall be convened in April for the purposes of conducting Association business; sharing scientific information through symposia, paper and poster sessions, and workshops; and strengthening social and professional ties among Southeastern biologists.

Section 2. All titles and abstracts of papers and posters submitted for the program shall be in the offices of the Local Arrangements Committee by the date set by the Editor and shall be presented according to the guidelines in the published Call for Papers.

Section 3. The maximal time period for the presentation of papers shall be established by the Local Arrangements Committee, and the Chairs of the paper sessions will enforce the established time period.

Section 4. Papers presented at the Annual Meeting shall be read by members or persons introduced by members.

Article IX - The Enrichment Fund

Section 1. The Association shall maintain an Enrichment Fund to support long- and short-range objectives to advance biological education through teaching and research. The specific objectives to be supported shall be designated by the Executive Committee and approved by the membership.

Section 2. The Enrichment Fund shall be under joint management of a Board composed of the Executive Committee and Finance Committee and guided by a Chair appointed by the President for a term of 3 years. This Board shall be responsible for the: prudent investment of all Endowment Funds of the Association and for planning and directing the recruitment of funds from the membership and external sources. The Chair shall report the current status of the Enrichment Fund to the Association at the Annual Meeting.

Section 3. The Board shall receive and administer bequests and other property from any source and shall have the authority to buy, sell, exchange, lease, transfer, or otherwise dispose of any property, real or personal, with respect to the Enrichment Fund.

Section 4. Bequests and gifts without specific designation (General Fund) shall be designated by the Board for any established educational objective of the Association. Bequests and gifts received for specific purposes shall be either applied directly to the intended purpose (Restricted Funds) or placed in an Endowment with only

the annual earnings applied to the intended purpose in accordance with the wishes of the donors. Endowments may be named in honor or memory of individuals or for the intended purpose and may be established for existing educational objectives or others approved by the Board.

Section 5. Income Allocation - The General Fund, Restricted Funds, and Endowments shall be allocated income at the end of the fiscal year based on the average balance of each fund in the total amount of Enrichment Funds invested for that year.

Section 6. Investment Policy - In order to protect the contributions to the Enrichment Fund for their intended objectives, the Board shall strive to invest funds only in conservative investment vehicles offering the highest interest rates or earnings at the time of purchase. Since changes in the economy and other factors greatly affect interest rates and earnings, funds shall be invested up to a period of 5 years unless otherwise approved by the Board.

Section 7. An audit of the Enrichment Fund shall be made at the close of each fiscal year by the Auditing Committee. The committee's report shall be presented to the Association at each Annual Meeting.

Article X - Amendments

Section 1. These bylaws may be amended at any Annual Meeting of the Association by a two-thirds majority vote of those present.

Section 2. Amendments to these bylaws shall take effect at the close of the meeting at which they were adopted.

NOTE: The revised ASB Constitution and Bylaws are available on the ASB web page at http://www.asb.appstate.edu/.

2000 Meeting in Chattanooga

REVIEWS

James Ross, Review Editor, 7196 College Station Drive,
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Alters, Sandra. 2000. **Biology: Understanding Life.** Jones and Bartlett Publishers, Inc. Sudbury, Massachusetts. 3rd edition. 837 pages.

This is an attractive and engaging introductory biology textbook for the non-major student at the college level. The author has seriously addressed instructors' concerns about teaching this diverse group whom she describes as "science-shy" and "academically-underprepared." The book focuses on the scientific process and helping students connect course material with their everyday lives, while emphasizing active learning and critical thinking. These objectives have been addressed by a few other current textbooks, but this text has some unique strategies to implement the inquiry-based approach.

The first chapter explains the process of science, with a simple example—the use of fertilizers on houseplants. Variables are described in an easy-to-understand manner which is helpful later when students learn about classic experiments, and may apply to the students' laboratory component of the course. It is unusual for a textbook to address bias in science and to describe the scientific method as flexible and applicable to everyday problems. This is refreshing and also an essential part of the description of science for the non-major. The process of science is a theme throughout the book in the "How Science Works" boxes that highlight application. A unique feature of the first chapter is the description of components of a real scientific journal article to show students how scientists communicate with each other. The article is presented in larger size with more comments in Appendix E. This feature would be a welcome addition in majors' texts as well!

The book is traditionally organized, describing increasing complexity from molecules to the biosphere. Systems are introduced and described across the 5 Kingdoms in the third unit with an emphasis on the human body. However, evolution is not a central theme as is typical of many current texts, and gene expression and bioengineering are discussed before Mendelian genetics and human heredity, which is unusual but effective.

There are several distinctive features in this text that make it stand out from the rest. "Just Wondering" presents real student questions with down-to-earth answers. "Bioissues," at the beginning of each major unit, describe a current issue in biology that students are bound to have heard about in the mass media, and so provide a "hook" to stimulate their interest. These include the irradiation of food, fetal tissue research, herbal supplements, genetic testing, bioengineering, and animal research. "Health Connections" (on contraception, heartburn, kidney stones, for example) are incorporated into the concept descriptions as separate sections when appropriate. There are connections to the World Wide Web (denoted by a web icon), with an opportunity to ask the questions of the author herself. Other engaging features include a file folder-type of topic organization, and the learning portfolios (with complete answers in Appendix A) and a study guide available in "e-learning." The book has creative diagrams that sometimes

incorporate photographs (e.g., the levels of biological organization) and a "focus on plants" section which helps to balance the human approach to biology.

The book has a few drawbacks, however. It is lengthy (837 pages) and because it is so well integrated, it does not easily lend itself to being split. This common option of deleting chapters offered by publishers (including Jones and Bartlett) reduces length (and weight!) and less significantly, cost for students. One semester college courses would not be able to cover the large number of topics. Also, some photographs are smaller than ideal for their subject matter, and they do not always have figure numbers or captions. This makes it difficult for the teacher to refer to the photographs or draw student attention to detail.

The book makes a significant contribution toward improving undergraduate education in biology. It is a popular choice among the biology faculty members at Elon College.

KATHY GALLUCCI, *Assistant Professor of Biology, Elon College, Elon College, North Carolina 27244.*

Dillard, Gary E. 1999. **Common Freshwater Algae of the United States. An Illustrated Key to the Genera (Excluding the Diatoms)**. J. Cramer. Berlin. $30.50 paper. 173 pages.

Training students to identify specimens of freshwater algae makes one painfully aware of the common shortcomings of the standard keys. The available offerings have been either costly, overly inclusive and technical for a field course targeted to ecologists, or seriously outdated for a modern phycology course. Dillard's new text is a welcome addition to the usual choices, primarily because it makes the study of algae readily accessible to students in field intensive classes like limnology or aquatic ecology in addition to those students in a more traditional phycology course. This "user friendly" approach is accomplished primarily by describing new terms only when they are first used, and minimizing specific terminology overall.

Users of Prescot's 1978 *How to Know the Freshwater Algae* will immediately recognize that Dillard retained much of what worked in the past. In common with Prescott, Dillard's key is spiral bound, starts with an initial key to a few main sections (9 in Dillard's), is nicely illustrated with line drawings, and follows a taxonomy based on distinct morphology instead of a natural, phylogenetic system. Dillard adds many helpful ecological and systematic notes in descriptions of the 300+ genera covered. In addition to an easy-to-use key, there is an overview of collection techniques and a bibliography of 66 taxonomic works related to the freshwater algae, all in a mere 173 pages. While the slim size of this very workable key is attractive, most instructors using this key for a survey course will find that they will need to add a variety of supplemental handouts. There is no glossary, nor any descriptions of the major algal taxa above genera. An index to terms could improve the utility of this key to undergraduates without cluttering up the text. Dillard's omission of the diatoms is somewhat forgivable in that it greatly simplifies the keys, and several good keys specific to the diatoms are available. I would have preferred, however, that some description of the diatoms with a few illustrations would have been included if only to help the

neophyte recognize their distinctive differences. Nonetheless, I highly recommend this text to anyone in the U.S. who needs a tractable key to algal genera of freshwater systems.

DONNA W. VOGLER. *Department of Biological Sciences. University of Pittsburgh, PA 15260.*

Goldstein, Robert J., Rodney W. Harper, and *Richard Edwards*. 2000. **American Aquarium Fishes**. Texas A&M University Press, College Station, TX. $99.95. 428 pages.

Bob Goldstein has done it again. *American Aquarium Fishes* now graces the literature treating a facet of fishes that most authors ignore: how to care for, collect, and breed common American fishes for the aquarium. His *Coastal Fishing in the Carolinas* was an outgrowth of his love of fishing, so too he now has devoted his efforts, along with R. Edwards (plant Chapter 5) to present us with a very readable book on 642 species of fishes, mostly freshwater minnows and darters, that can be kept and/or bred in aquaria. Color "plates", nestled between pages 208 and 209, depict 118 species in vivid colors while 260 black and white photos depict many other freshwater and some marine fishes (38) .

American Aquarium Fishes is divided into 18 chapters: 1) introduction, 2) distribution of fishes, 3) collecting and transporting native fishes, 4) collecting regulations and protected species (a must-read chapter before doing any collecting), 5) plants in the aquarium (by R. Edwards), and 6) food and feeding. Chapters 7-18 (pages 52-404) present short details about fishes in the orders: Acipenseriformes, Lepisosteiformes, Amiiformes, Cypriniformes, Siluriformes, Esociformes, Percopsiformes, Cyprinodontiformes, Atheriniformes, Gasterosteiformes, Scorpaeniformes, and Perciformes. A literature cited section occupies p. 405-422; index p. 423-428.

American Aquarium Fishes is an 8 ½ x 11" book of 428 p. However, in most cases, species comments utilize only 2/3 of the page width, which, if full page width was used, would have reduced the volume by at least 100 pages. This volume is easy to read as Goldstein explains terms, whether common or scientific, so all can understand why they are used. An important table, pages 18-19, supplements the sections mentioned in Chapter 7 regarding a species status and a state's regulations on collecting.

Problems, although minor, with the volume are: why weren't the species illustrations listed on pages VII-XI referenced in the index for how is a neophyte supposed to know the species in hand if he doesn't know what family it belongs to or its common or scientific name? Why weren't Edwards' plant drawings in color (Chp. 5) for today all have been noted in color in many aquatic plant books? Percichthyes (p. 17) should be listed as family Moronidae. Reference to C. Hubbs (1995) should have been Clark Hubbs for Carl Hubbs died several years ago. Why weren't the black and white fish photos placed with that species comments rather than at the top of a page, for on first glance you see the photo and expect the comments next. *Catostomes plebeius*, p. 68, is listed on p. 68 only in the index, in the text it occurs on p. 68 and 69. *Minytrema melanops* (p. 73) also occurs in Pymatuning Lake, Pennsylvania. Why refer to the 118 color photos as plates? Why no write up for *Hybopsis lineapunctata* when there is a

picture (p. 140) or no picture for *Cyprinella leedsi*, but there is a write up (p. 165)? Why cuckoo spawning (p. 176) when it should have been cuckold? Why so little written about sexual dimorphism or drab colors in females? Hybridization is mentioned in many species accounts (57) but only 15 are noted in the index (basses, sunfishes, perches). Why say two subspecies of *Percina sciera* (p. 302) or *Etheostoma E. euzonum* (p. 134), as is the case for so many other species, and then not mention them? It is confusing to say *Etheostoma nigrum* nests in "caves", rather it would be less confusing to say it deposits its eggs under rocks or cavelike openings. *Hypsoblennius ionthias* (p. 307) occurs in North Carolina as does *Gobioides broussoneti*: *Gobiosoma robustum* (p. 399) as well as *Microgobius gulosus* (p. 400) also occur in the Chesapeake Bay. *Eleotris "pisonis"* occurs in the Cape Fear River, North Carolina (p. 407). *Dormitator maculatus* (p. 422) occurs in Pamlico Sound, North Carolina.

Try as I might, I couldn't find a single typographical error, a tribute to the author and the publisher. I hope the author will, in the next edition, put a table by type of spawner: crevise, broadcast, structure attached, etc., to save collectors and aquarists time instead of sending them to ferret out the information by noting each species write up; if not, an asterisk or designation would do at the beginning of each species discussion. The price for *American Aquaium Fishes* is right, in relation to this age of high publication costs. I wonder what Bob Goldstein will come up with for us next.

Literature Cited:

Schwartz, F. J. 1971. Biology of *Microgobius thalassinus* (Pisces: Gobiidae), a sponge-inhabiting goby of Chesapeake Bay, with range extensions of two goby associates. Chesapeake Sci. 12(3):156-166.

Schwartz, F. J. 1999. Gobioid fishes of North Carolina. J. Elisha Mitchell Sci. Soc. 115(4):281-293.

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Turcotte, William H. and *David L. Watts*. 1999. **Birds of Mississippi**. Mississippi Department of Wildlife, Fisheries and Parks and University Press of Mississippi/Jackson. $50.00. 455 pages.

In the preface, Mr. Turcotte writes, "This book is about birds, people who like to study birds, and places where birds are found." The senior author had a long career as a biologist and administrator at Mississippi's Department of Wildlife, Fisheries, and Parks, as well as a key player in the Mississippi Ornithological Society. The junior author, Mr. Watts, has a long career that includes editing *Mississippi Outdoors*.

Birds of Mississippi covers the 397 species recorded for the state. With its facts and figures, and with species accounts accompanied by range maps and seasonal abundance and distribution graphs, this is a standard reference. For many species there are specific names of the birders, the places, and the numbers of birds seen. There are many stories about watching birds and working for conservation of birds and wildlife in general.

The "I" one frequently encounters here is Mr. Turcotte. His approach is conversational, personal, and anecdotal. In explaining the occurrences of some

species, he carries us far from Mississippi. In attempting to make recordings of the calls of long-billed curlews, for example, he and spouse Dorothy wound up on an adventure among the Blackfeet Indians north of Browning, Montana.

As a long time manager of game species, Turcotte has much to share about species like bobwhite quail, wild turkey, American woodcock, and others. The bobwhite write-up traces this bird from its heyday of small farm Mississippi habitat to its nadir of agricultural monocultures lacking food or cover. There is "hook and bullet" biology here, and much else, too.

The woodcock account has a marvelous passage about recording calls and making films of breeding displays. The clapper rail narrative includes details about the effects of Hurricane Juan on these marsh dwellers in 1985. His accounts and personal involvement with conservation in behalf of the Mississippi sandhill crane is compelling. Ditto for the efforts to protect nesting of least terns on the beaches of Mississippi's Gulf Coast.

Several of the introductory chapters are impressive, especially histories of ornithology and wildlife management in Mississippi, including biographies of some key players. John James Audubon makes an appearance here, of course, as do worthy players like Frances A. Cook, who was instrumental in organizing the Mississippi Ornithological Society in 1955. The chapter entitled "Wildlife conservation and management" (pp. 15-28) deserves an audience wider than the typical bird watching community.

The authors have accomplished much, but there were missed opportunities. Walter Inglis Anderson, perhaps the most illustrious of Mississippi's native artists, specialized in drawing, painting, and writing about the flora and fauna of Mississippi's Gulf Coast, especially birds, and especially the offshore islands now included in the Gulf Islands National Seashore. A museum featuring his work has been established in Ocean Springs. It is worth a visit for anyone interested in Mississippi bird life.

Mississippi is smack in the middle of the range of the endangered red-cockaded woodpecker (RCW). The overall status of the bird is treated, but the writing lacks the vigor and interest characterizing accounts of other rare birds. One of the most active of the earlier RCW specialists, Jerome Jackson, is not mentioned in this account despite his path finding work in Mississippi. His many research papers dealing with RCWs are missing from the book's literature cited (and curiously, many of his papers dealing with other species in the state are cited). In addition, during the past 10 years, efforts by field biologist David Richardson and personnel at Noxubee National Wildlife Refuge has turned decline into growth—a considerable achievement in RCW management.

"The activities of humans continue to define nature at the expense of wildlife," the authors state (p. 7). "If we are to save endangered and threatened wildlife, even our songbirds, concerted actions must be taken to save habitat and the diverse ecosystems necessary for their life support. We will save a vital part of our natural heritage and ourselves only by actions to preserve and restore them for future generations." This book should help.

Birds of Mississippi is a reference book and as such it belongs in public libraries throughout the state and in university libraries elsewhere. Active bird watchers and other outdoor enthusiasts in Mississippi and bordering states will consult it and many will want their own copy.

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Carolina Biological Supply Company
2700 York Road, Burlington, North Carolina 27215

9. Full Names and Complete Mailing Addresses of Publisher, Editor, and Managing Editor *(Do not leave blank)*

Publisher *(Name and complete mailing address)*

Tim Atkinson, Carolina Biological Supply Company
2700 York Road
Burlington, North Carolina 27215

Editor *(Name and complete mailing address)*

James D. Caponetti
Department of Botany, Cumberland Avenue, University of Tennessee
Knoxville, Tennessee 37996-1100

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Full Name	Complete Mailing Address
Association of Southeastern Biologists	Tim Atkinson, Carolina Biological Supply Co. 2700 York Road, Burlington, NC 27215

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The ASB Bulletin		December, 2000	
15. Extent and Nature of Circulation		Average No. Copies Each Issue During Preceding 12 Months	Actual No. Copies of Single Issue Published Nearest to Filing Date
a. Total Number of Copies *(Net press run)*		1,177.3	1,200
b. Paid and/or Requested Circulation	(1) Sales Through Dealers and Carriers, Street Vendors, and Counter Sales *(Not mailed)*	0	0
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h. Copies not Distributed	(1) Office Use, Leftovers, Spoiled	131.7	50
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16. Publication of Statement of Ownership
☒ Publication required. Will be printed in the December, 2000 issue of this publication.
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17. Signature and Title of Editor, Publisher, Business Manager, or Owner	Date
James D. Capouetti, Editor	November 20, 2000

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2000 Meeting in Chattanooga

2000 Meeting in Chattanooga

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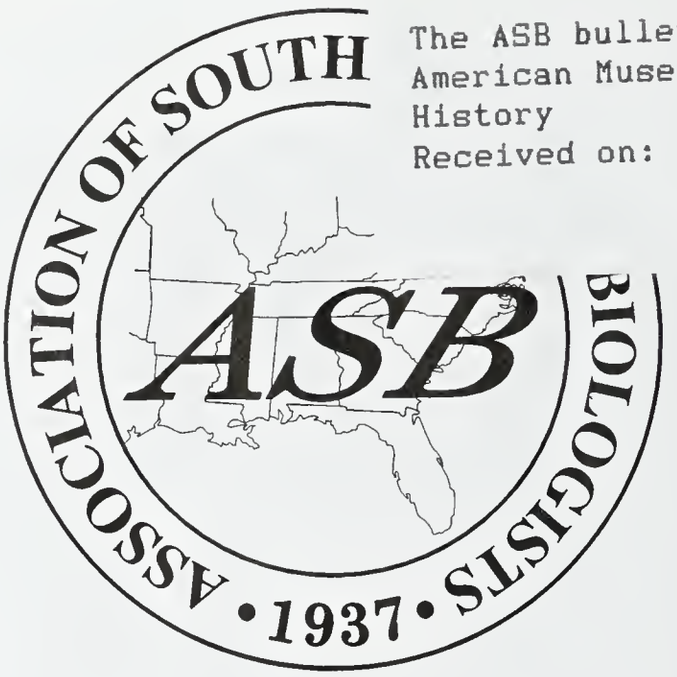

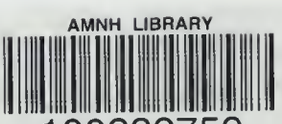

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